Rahul Nitesh Kumar Balani

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EDUCATION

National Institute of Technology Karnataka, Surathkal — **November 2022 - May 2026(Expected)**
B.Tech in Computational And Data Science — *CGPA-8.81(December 2024)*

St.Xaviers International School,Kalyan — **September 2020 - May 2022**
The Maharashtra State Board of Secondary and Higher Secondary Education — *Percentage - 89%*

Podar International School — **May 2020**
Indian Certificate of Secondary Education — *Percentage - 91%*

PROJECTS

Customer Churn Prediction Using ANN ⦿ | *Python, TensorFlow, Keras, Streamlit, Pandas* **January 2025 - Present**
- Developed an Artificial Neural Network (ANN) model for customer churn prediction, achieving 88% accuracy by optimizing hyperparameters and leveraging TensorFlow/Keras.
- Deployed a user-friendly web application using Streamlit, enabling real-time predictions through automated preprocessing pipelines that handle missing data, normalization, and categorical encoding.

CPegle ⦿ | *ReactJS, NodeJS, Express, Socket.io, Prisma* **April 2024 - May 2024**
- Developed a competitive programming platform inspired by Omegle that uses the Codeforces API to randomly match players for live coding challenges and enables real-time chat during the competition.
- Utilized modern web technologies including React, Node.js, and Socket.io to create a feature-rich chat platform enabling seamless real-time communication.
- Designed a robust authentication system using JWT for secure login and registration processes, enhancing user data protection.

DeScribeIt ⦿ | *ReactJS, Cloudflare Workers, Prisma, Zod* **January 2024 - February 2024**
- Engineered a serverless backend using Cloudflare Workers, optimizing API request handling to achieve sub-100ms response times and support scalable infrastructure, reducing server costs.
- Developed a blogging website featuring user authentication and full CRUD functionality for creating, reading, updating, and deleting blog posts.
- Ensured robust input validation with Zod, secure user authentication using JWT, and efficient data management with Prisma ORM.

BitWiseTransfer ⦿ | *NextJS, Express, Turborepo, Prisma ORM, Tailwind* **December 2023 - January 2024**
- Developed a full-stack web application using NEXT.js, integrating backend and frontend functionalities seamlessly.
- Implemented Zod for rigorous input validation and TurboRepo for efficient data management, ensuring robust data integrity and performance.
- Integrated NextAuth.js for secure authentication, enhancing user experience with reliable sign-in functionalities.

TECHNICAL SKILLS

Languages: C++, HTML/CSS, JavaScript,SQL, TypeScript,Solidity,Python,LangChain
Developer Tools: VS Code, Git, GitHub, Postman, Docker,Kubernetes,tRPC,NestJS,LangSmith
Technologies/Frameworks:React.js, Next.js, Tailwind CSS, Express.js, Zod, Prisma, Recoil,NextAuth.js,Django
Tools: MongoDB

ACHIEVEMENTS

Competitive Programming
- 3 star coder on CodeChef(Max Rating : **1730**) balani491
- Ranked **384** globally among 15000 participants in CodeChef Starters 117
- Ranked **904** in ICPC Amritapuri Preliminary Round 2023

JEE Mains: 99.435 Percentile and secured AIR 4932 out of 1 Million+ candidates.
JEE Advanced: AIR 9760

LEADERSHIP/EXTRACURRICULAR

Google Developer Groups, NITK — **Oct 2024-Present**
Executive Member — *Surathkal, India*
- ∗ Executive Member at GDG (Web Enthusiasts' Club - NITK), one of the technical clubs at NITK, involved in working on projects.
- ∗ Worked along club members during Summer Mentorship Program.